

INFORMATION DISCLOSURE STATEMENT		Case Name. Serial No. Applicant: Filing Date: Group:	J. Aizenberg 5-2-15 16/631, 996 J. Aizenberg, et al. July 31, 2003 2873
---	--	--	---

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
<i>DR</i>	AA	5,348,687	9/20/94	Beck et al.	252	582	11/26/93
	AB	5,948,470	9/7/99	Harrison et al.	427	198	4/22/98
	AC	6,027,666	2/22/00	Ozin et al.	252	301.4R	6/5/98
	AD	6,319,427	11/20/01	Ozin et al.	252	301.4F	2/7/00
	AE	5,248,734	9/28/93	Ober et al.	525	328.8	6/16/92
	AF	5,665,527	9/9/97	Allen et al.	430	325	2/3/97
	AG	6,329,070 B1	12/11/01	Sass et al.	428	612	12/7/00
<i>DR</i>	AH	6,379,874 B1	4/30/02	Ober et al.	430	322	10/16/00
	AI	Serial No. 10/321027		Reichmanis et al.			12/17/02
<i>DR</i>	AJ	5,922,299	7/13/99	Bruinsma et al.	423	335	8/26/97
	AK	Serial No. 10/098286		C.H. Chen et al.			3/15/02
	AL	Serial No. 10/040017		M. Megens et al.			1/4/02
<i>DR</i>	AM	6,471,761	10/29/02	Fan et al.	106	287.16	4/20/01
<i>DR</i>	AN	6,387,453	5/14/02	Brinker et al.	427	387	3/2/00
<i>DR</i>	AO	6,465,387	10/15/02	Pinnavaia et al.	502	158	10/18/00

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation
<i>DR</i>	AP	WO 01/42540 A1	6/14/01	PCT	C30B	33/00	Yes
<i>DR</i>	AQ	WO 01/51990 A1	7/19/01	PCT	G03C	5/00	Yes
<i>DR</i>	AR	WO 01/31404 A1	5/3/01	PCT	G03F	7/30	Yes

OTHER (including Author, Title, Date, Pertinent Pages, etc.)

<i>DR</i>	AS	Tuberfield, A.J., "Photonic Crystals Made By Holographic Lithography," MRS. Bulletin, August 2001, pp. 632-636.
<i>DR</i>	AT	Campbell, M., et al., "Fabrication of Photonic Crystals For The Visible Spectrum by Holographic Lithography," Nature, Vol. 404, March 2, 2000, pp. 53-56.
<i>DR</i>	AU	Ho, K.M., et al., "Existence Of A Photonic Gap In Periodic Dielectric Structures," Physical Review Letters, Vol. 65, No. 25, December 17, 1990, pp. 3152-3155.
<i>DR</i>	AV	Ozbay, E., et al., "Measurement Of A Three-Dimensional Photonic Band Gap In A Crystal Structure Made Of Dielectric Rods," Physical Review B, Vol. 50, No. 3, July 15, 1994, pp. 1945-1948.

EXAMINER	DATE CONSIDERED
<i>DR</i>	8-30-05

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

	AW	Tuberfield, A., "Photonic Crystals Made By Holographic Lithography," ABSTRACT from Symposium K, <i>Microphotonics-Materials, Physics, and Applications</i> , Nov. 26-29, 2001, 1 page.
	AX	Shoji, S., et al., "Photofabrication Of Three-Dimensional Photonic Crystals By Multibeam Laser Interference Into A Photopolymerizable Resin," <i>Applied Physics Letters</i> , Vol. 76, No. 19, May 8, 2000, pp. 2668-2670.
	AY	Sundararajan, N., et al., "Supercritical CO ₂ Processing for Submicron Imaging of Fluoropolymers," <i>Chemistry of Materials</i> , Vol. 12, No. 1, January 2000, pp. 41-48.
	AZ	Kresge, C.T., et al: "Ordered mesoporous molecular sieves synthesized by a liquid-crystal template mechanism" <i>NATURE</i> , vol. 359, October, 1992, pp. 710-712.
	AA-1	Taney, Peter T., et al: "A Neutral Templating Route to Mesaporous Molecular Sieves," <i>SCIENCE</i> , vol. 267, February, 1995, pp. 865-867.
	AA-2	Huo, Q. et al: "Generalized synthesis of periodic surfactant/inorganic composite materials," <i>NATURE</i> , vol. 368, March, 1994, pp. 317-321.
	AA-3	Sanchez, C., et al: "Design and Properties of Hybrid Organic-Inorganic Nanocomposites for Photonics," <i>MRS Bulletin</i> , May, 2001, pp. 377-387.
	AA-4	Yang, P., et al: "Hierarchically Ordered Oxides," <i>Science</i> , vol. 282, December 1998, pp. 2244-2246.
	AA-5	Templin, M. et al: "Organically Modified Aluminosilicate Mesostructures from Block Copolymer Phases," <i>Science</i> , vol. 278, December, 1997, pp. 1795-1798.
	AA-6	Raman, N.K., et al: "Template-Based Approaches to the Preparation of Amorphous, Nanoporous Silicas," <i>Chemical Matter</i> , vol. 8, February, 1996, pp. 1682-1701.
	AA-7	Yang, P., et al: "Block Copolymer Templating Syntheses of Mesoporous Metal Oxides with Large Ordering Lengths and Semicrystalline Framework," <i>Chemical Matter</i> , vol. 11, 1999, pp. 2813-2826.
	AA-8	Brinker, C.J., et al., "Evaporation-Induced Self-Assembly: Nanostructures Made Easy" <i>Advanced Materials</i> , vol. 11, 1999, pp. 579-585.
	AA-9	Lee, Y-J., Braun, P.V., "Tunable Inverse Opal Hydrogel pH Sensors," <i>Adv. Mater.</i> 2003, 15, No. 7-8, April 17, 2003, pp. 563-566.
	AA-10	Arsenault, A.C., et al., "A Polychromic, Fast Response Metallocopolymer Gel Photonic Crystal with Solvent and Redox Tunability: A Step Towards Photonic Ink (P-Ink)," <i>Adv. Mater.</i> 2003, 15, No. 6, March 17, 2003, pp. 503-507.
	AA-11	Zhang, S., et al., "Materials and techniques for electrochemical biosensor design and construction," <i>Biosensors & Bioelectronics</i> 15, (2000), pp. 273-282.
	AA-12	Wu, H., et al., "Reduction Photolithography Using Microlens Arrays: Applications in Gray Scale Photolithography," <i>Analytical Chemistry</i> , Vol. 74, No. 14, July 15, 2002, pp. 3267-3273.
	AA-13	Leister Microsystems, leaflet by Leister Microsystems entitled, "Micro-optics - Imagine the Future of Light," Sept. 2000, 4 pages.
	AA-14	Stokes, D.L., et al., "Detection of <i>E. coli</i> using a microfluidics-based Antibody Biochip detection systems," <i>Fresenius, J. Anal Chem</i> (2001) 369, pp. 295- 301.
	AA-15	Jahns, J., et al., "Microoptics for biomedical applications," American Biotechnology Laboratory, No. 18, October, 2000, pp. 52 and 54.
	AA-16	Campbell, D.J., et al., "Replication and Compression of Bulk and Surface Structures with Polydimethylsiloxane Elastomer," <i>Journal of Chemical Education</i> , Vol. 75, No. 4, April 1999, pp. 537-541.
	AA-17	Kruk, M., et al., "Mesoporous Silicate-Surfactant Composites with Hydrophobic Surfaces and Tailored Pore Sizes," <i>Journal of Physical Chemistry</i> 106 B (2002) pp. 10096 - 10101.
	AA-18	Thrush, E., et al., "Integrated semiconductor fluorescent detection system for biochip and biomedical applications," <i>IEEE-EMBS Special Topic Conference on Microtechnologies in Medicine & Biology</i> , May 2002, pp. 374-379.

***References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

***Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

DR

8-30-05



INFORMATION DISCLOSURE STATEMENT		Case Name: J. Aizenberg 5-2-15
		Serial No. 10/631996
		Applicant: J. Aizenberg, et al.
		Filing Date: July 31, 2003
		Group: 2873

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
<i>DR</i>	AA	10/383,150		G. Chen et al.			3/6/2003
<i>DR</i>	AB	6,409,907	6/25/02	Braun et al.	205	317	2/11/99

20040172173

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation

OTHER (including Author, Title, Date, Pertinent Pages, etc.)

<i>DR</i>	AC	Avgeropoulos, et al., "Synthesis and Morphological Behavior of Silicon-Containing Triblock Copolymers for Nanostructure Applications," Chem. Mater. 1998, 10, pp. 2109-2115.
	AD	Chan, Vanessa A-H., et al., "Ordered Bicontinuous Nanoporous and Nanorelief Ceramic Films from Self-Assembling Polymer Precursors," Science, 11/26/99, Vol. 286, pp. 1716-1719.
	AE	Shishido, A., et al., "Direct fabrication of two-dimensional titania arrays using interference photolithography," Applied Physical Letters, Vol. 79, No. 20, 11/12/01, pp. 3332-3334.
	AF	Young, "Organic-Inorganic Monomers," accessed at http://www.psrc.unm.edu/mauritz/nano2.html , July 8, 2002.
	AG	Yang, et al., "Creating Periodic Three-Dimensional Structures by Multibeam Interference of Visible Laser," Chemistry of Materials, Vol. 14, No. 7, July 2002, pp. 2831-2833.
	AH	Vlasov et al., "On-Chip Natural Assembly of Silicon Photonic Bandgap Crystals," Nature, Vol. 414, November 15, 2001, pp. 289-293.
	AI	Baney, et al., "Silsesquioxanes," American Chemical Society, 1995, pp. 1409-1430.
	AJ	The Wittman Company, "Carbon Dioxide," published online at http://www.wittman.com/co2.htm , December 4, 2002, 2 pages
<i>DR</i>	AK	"Sol-Gel Chemistry," published online at http://www.sol-gel.com/chemi.htm , December 9, 2002, 2 pages.

**References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

**Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

EXAMINER	DATE CONSIDERED
<i>DR</i>	8-30-05

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant



INFORMATION DISCLOSURE STATEMENT		Case Name: Serial No. Applicant: Filing Date: Group:	J. Aizenberg 5-2-15 10/631996 J. Aizenberg, et al. July 31, 2003 2873
----------------------------------	--	--	---

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation

OTHER (including Author, Title, Date, Pertinent Pages, etc.)

	AA	Joanna Aizenberg et al, "Calcite microlenses as part of the photoreceptor system in brittlestars". Naturae Vol. 412 (Aug. 23, 2001) pages 819 – 822.

***References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

***Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

EXAMINER	DATE CONSIDERED
	8-30-05

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant



INFORMATION DISCLOSURE STATEMENT		Case Name. Serial No. Applicant: Filing Date: Group:	J. Aizenberg 5-2-15 10/631996 J. Aizenberg, et al. July 31, 2003 2873
----------------------------------	--	--	---

U.S. PATENT DOCUMENTS

*Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date
<i>DR</i>	AA 3,670,130	6/13/1972	Greenwood	200	183	2/24/1970
	AB 4,569,575	2/11/86	Le Pesant et al.	350	353	6/19/1984
	AC 5,486,337	1/23/1996	Ohkawa	422	100	2/18/1994
	AD 5,659,330	8/19/1997	Sheridan	345	84	5/31/1996
	AE 4,030,813	6/21/1997	Kohashi et al.	350	161 S	12/17/1975
	AF 4,118,270	10/03/78	Pan et al.	156	659	2/18/1976
	AG 4,137,060	1/30/1979	Timmermann	65	31	11/21/1977
	AH 4,338,352	7/6/1982	Bear et al.	427	8	2/23/1981
	AI 4,406,732	9/27/1983	Kayoun	156	626	3/4/1982
	AJ 4,653,847	3/31/1987	Berg et al.	350	96.20	2/23/1981
	AK 4,671,609	6/9/1987	Khoe et al.	350	96.18	12/8/1983
	AL 4,708,426	11/24/1987	Khoe	350	96.18	7/2/1985
	AM 5,412,746	5/2/1995	Rossberg et al.	385	48	3/22/1994
	AN 5,518,863	5/21/1996	Pawluczyk	430	321	7/5/1994
	AO 5,428,711	6/27/1995	Akiyama et al.	395	25	1/9/1992
	AP 6,369,954	4/9/2002	Berge et al.	359	666	7/25/2000
	AQ 6,545,815	4/8/1003	Kroupenkine et al.	359	665	9/13/2001
	AR 6,545,816	4/8/2003	Kroupenkine et al.	359	665	10/19/2001
	AS 6,538,823	3/25/2003	Kroupenkine et al.	359	665	6/19/2001
	AT 6,014,259	1/11/2000	Wohlstadter	359	619	6/7/1995
	AU 4,948,214	8/14/1990	Hambien	350	413	7/10/1989
<i>DR</i>	AV 4,867,521	9/19/1989	Mallinson	350	96.18	4/9/1986
	AW 10/231614		Kroupenkine et al.			8/30/2002
	AX 10/139124		Kroupenkine et al.			5/03/2002
	AY 10/135973		Z. Bao et al.			4/30/2002
	AZ 10/637837		Davis et al.			8/8/2003
	AA-1 10/402046		Aizenberg et al.			3/28/03
	AA-2 10/376412		Aizenberg et al.			3/3/2002
	AA-3 10/094093		Eggleton et al.			3/8/2002
	AA-4 10/096199		Chandross et al.			3/12/2002

20030164987

 6829415
 20050088884
 6665127
 6847493
 6778328
 6891682
 2003051
 6936196

EXAMINER <i>DR</i>	DATE CONSIDERED <i>8-30-05</i>
-----------------------	-----------------------------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant



INFORMATION DISCLOSURE STATEMENT

Case Name: J. Aizenberg 5-2-15
 Serial No. 10/631996
 Applicant: J. Aizenberg, et al.
 Filing Date: July 31, 2003
 Group: 2873

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation
	AA-5	FR 2 769 375 A1	4/9/1999	France	G 02 B	3/14	No
	AA-6	DE 196 23 270 A	1/15/1998	Germany	G 02 B	26/09	No
	AA-7	WO 99/18456	4/15/1999	France	G 02 B	26/02	No

OTHER (including Author, Title, Date, Pertinent Pages, etc.)

	AA-8	Washizu, Masao, "Electrostatic Actuation of Liquid Droplets for Microreactor Applications," <i>IEEE Transactions on Industry Applications</i> , Vol. 34, No. 4, July/August 1998, pp. 732-737.
	AA-9	Schilling, Andreas et al., "Surface Profiles of Reflow Microlenses Under the Influence of Surface Tension and Gravity, <i>Opt. Eng.</i> 39(8) pp. 2171-2176, Society of Photo-Optical Instrumentation Engineers, August 2000.
	AA-10	Danzerbrink, R. et al., "Deposition of Micropatterned Coating Using an Ink-Jet Technique," <i>Thin Solid Films</i> 351, pp. 115-118, Elsevier Science S.A. (1999).
	AA-11	Feng, Chuan Liang et al., "Reversible Wettability of Photoresponsive Flourine-Containing Azobenzene Polymer in Langmuir-Blodgett Films," <i>Langmuir</i> Vol. 17, No. 15, 2001, pp. 4593-4597, American Chemical Society, published on Web 06/22/2001.
	AA-12	Ichimura, Kunihiro et al., "Light-Driven Motion of Liquids on a Photoresponsive Surface," <i>Science</i> , Vol. 288, June 2, 2000, pp. 1624-1626.
	AA-13	Commander, L.G. et al., "Variable Focal Length Microlenses," <i>Optics Communications</i> 177, April 15, 2000, pp. 157-170.
	AA-14	Aizenberg, J., et al., "Calcitic microlenses as part of the photoreceptor system in brittlestars," <i>Nature</i> , Vol. 412, pp. 819-822, 23 August 2001.
	AA-15	English language translation of abstract for German Patent Document : DE 19623270 from European Patent Office database, (esp@cenet.com (1998), 1 page.

***References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

***Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

DM

8-30-05



INFORMATION DISCLOSURE STATEMENT		Case Name: Serial No. Applicant: Filing Date: Group:	J. Aizenberg 5-2-15 10/631996 J. Aizenberg, et al. July 31, 2003 1766-2873
----------------------------------	--	--	--

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
JK	AA	3,454,686	7/8/69	Jones, H.S.	264	1	10/29/64

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation

OTHER (including Author, Title, Date, Pertinent Pages, etc.)

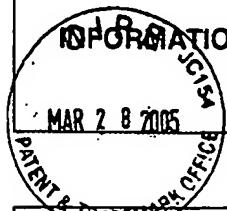
JK	AB	Abbot, N.L., et al., "Potential-Dependent Wetting of Aqueous Solutions on Self-Assembled Monolayers Formed from 15-(Ferrocenylcarbonyl) pentadecanethiol on Gold," Langmuir 1994, American Chemical Society, Vol. 10, pps. 1493-1497.

***References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

 ***Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

EXAMINER	DATE CONSIDERED
	8-30-05

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

 INFORMATION DISCLOSURE STATEMENT		Case Name:	J. Aizenberg 5-2-15
		Serial No.:	10/631996
		Applicant:	J. Aizenberg, et al.
		Filing Date:	July 31, 2003
		Group:	1756 2873

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
	AA	10/920673		Aizenberg et al.			08/18/2004

NOT PUBLISHED
FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation

OTHER (including Author, Title, Date, Pertinent Pages, etc.)

***References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

***Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

EXAMINER	DATE CONSIDERED
	8-30-05

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant



INFORMATION DISCLOSURE STATEMENT		Case Name: Serial No. Applicant: Filing Date: Group:	J. Aizenberg 5-2-15 10/631996 J. Aizenberg, et al. July 31, 2003 1756 2873
---	--	--	--

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation

OTHER (including Author, Title, Date, Pertinent Pages, etc.)

	AA	Stokes, D.L., et al., "Detection of <i>E. coli</i> using a microfluidics-based antibody biochip detection system," Journal of Analytic Chemistry, Vol. 369, pp. 295-301, (2001).

***References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

 ***Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

EXAMINER	DATE CONSIDERED
	8-30-05

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant